12v sla ups lithium conversion

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I have an APC SRT3000RMXLA which is a 2u, 2.7kw double conversion UPS Instead of buying more SLA batteries. Could I replace them with Lithium to get longer lifetime? The stock configuration is 8 x 12v 5ah SLA batteries, connected to make a 96v pack. Is there a drop in replacements for a 5ah battery, or would it all need to be completely DIY?

The nominal voltage of four LFP cells connected in series is 13 volts, and their discharge curve is similar to that of a 12-volt lead-acid battery. This makes LiFePo4 an ideal choice for constructing a 12-volt lithium battery, especially for marine, RV, and general solar PV applications.

I am thinking of more speed for a kick scooter project.I have a 800w hub motor for this scooter but at only 40Km/h i am thinking of making it go faster.Now I know that increasing the voltage from 48 to 60v would do,But what would happen by using a 1800w controller, would the increase wattage make it go faster?, is increased wattage going to make it faster?.

&
ws_ab_test=searchweb201556_9,searchweb201602_1_10034_507_10032_10020_10017_10005_10006_10021_10022_10009_10008_10018_10019,searchweb201603_7&
btsid=0bd124bf-0c76-4de8-be01-5960288c65d6

If your scooter has a 1000W motor then it will draw (take from the battery) 20 Amps. The spec for the Lithium batteries in the link lists the maximum output current as 1 to 2 Amp, which is nowhere near enough for your scooter. If you tried to use these lithium batteries then one of two things may happen:

It is also worth noting that your SLA batteries have a capacity of 12Ah, whereas the lithium batteries have a capacity of 6.8Ah. Even if they did work they would give you about half the range of the SLA batteries.

As you can see from the specifications each battery could supply up to 2 A giving 12 V x 2 A = 24 W. With all four you"ll have 96 W available to drive your 1,000 W motor. These batteries are intended for low-power applications. They will not suit your bike.

Your original setup had 12 Ah batteries. These ones, even if they could supply the required current, are 6.8 Ah capacity. Available energy is half of the lead-acid batteries.

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Lead-acid batteries have been around for over 150 years and have been the go-to battery for many

applications. They are a type of rechargeable battery that uses lead plates immersed in sulfuric acid to store energy.

They are commonly used in cars, boats, RVs, and other applications that require a reliable source of power. One of the main advantages of lead-acid batteries is their low cost. They are also widely available and easy to maintain.

However, they have a relatively short lifespan and are heavy compared to other battery types. They also contain toxic materials, such as lead and sulfuric acid, which can be harmful to the environment.

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